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| software rent and authorization key | | Search | Advanced Search Preferences |

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web   Results 1 - 10 of about **1,110,000** for <u>software</u> <u>rent</u> and <u>authorization</u> <u>key</u>. (0.11 seconds)

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iLok-enabled **software** products will ship with an iLok hardware device, or **"key"**,
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Secure **software rental** system using distributed **software** - US ...
Method for generating a password using public **key** cryptography ... A method of
providing secure **software rental**, comprising the steps of: ...
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> Remote access **authorization** of local content - US Patent 7089425
> Secure **software rental** system using continuous asynchronous password
> verification ... **Key**-based protection method for light-readable discs ...
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| software usage and authorization key | Search | Advanced Search
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The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web   Results **1 - 10** of about **1,040,000** for <u>software</u> <u>usage</u> and <u>authorization</u> <u>key</u>. (0.52 seconds)

<u>Software usage authorization system with key for decrypting/re ...</u>
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security device on the highly popular personal computers or a ...
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<u>HP.com - Product Authorization Key (PAK) data for OpenVMS and ...</u>
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licensing.hp.com/swl/view.slm?page=pak - 28k - <u>Cached</u> - <u>Similar pages</u>

> <u>HP.com - glossary</u>
> ... **Authorization Key** which unlocks **usage** of the given **software** product. ... to
> keep **software** license records and to monitor and control **software usage**. ...
> licensing.hp.com/swl/glossary.slm - 73k - Cached - Similar pages
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<u>CIPO - Patent - 2529064</u>
Described is a method and system for controlling **usage** of **software** on a computing
device. An **authorization key** is generated as a function of a device string ...
patents1.ic.gc.ca/details?patent_number=2529064 - 15k - <u>Cached</u> - <u>Similar pages</u>

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<u>Title Index</u>
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<u>[Paper] A **Software** Protection Solution for Application Service ...</u>
Currently, JavaCard technology is adopted for SPK as the **authorization** and ....
Software Protection **Key** (SPK) To protect authorized **usage** of the target ...
www.actapress.com/PDFViewer.aspx?paperId=24436 - <u>Similar pages</u>

<u>Public key infrastructure - Wikipedia, the free encyclopedia</u>
3.1 Web Of Trust; 3.2 Simple Public **Key** Infrastructure. 4 History; 5 PKI **software**; 6
Usage examples; 7 See also; 8 References; 9 External links ...
en.wikipedia.org/wiki/Public_key_infrastructure - 45k - Jun 4, 2007 -
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Terms used **software** and **authorization key**   Found **48,780** of **201,890**

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1   Public protection of software   ■
Amir Herzberg, Shlomit S. Pinter
October 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.78 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

> One of the overwhelming problems that software producers must contend with is the
> unauthorized use and distribution of their products. Copyright laws concerning software
> are rarely enforced, thereby causing major losses to the software companies. Technical
> means of protecting software from illegal duplication are required, but the available means
> are imperfect. We present protocols that enable software protection, without causing
> substantial overhead in distribution and maintenance. The pro ...

2   Identification control: Public key distribution through "cryptoIDs"   ■
Trevor Perrin
August 2003 **Proceedings of the 2003 workshop on New security paradigms NSPW '03**
Publisher: ACM Press
Full text available: 📄 pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

> In this paper, we argue that person-to-person key distribution is best accomplished with a
> key-centric approach, instead of PKI: users should distribute public key fingerprints in the
> same way they distribute phone numbers, postal addresses, and the like. To make this
> work, fingerprints need to be *small*, so users can handle them easily; *multipurpose*, so
> only a single fingerprint is needed for each user; and *long-lived*, so fingerprints don't have
> to be frequently redistribute ...
>
> **Keywords:** cryptoIDs, fingerprints, key distribution, key management, public key
> infrastructure

3   Digital signets: self-enforcing protection of digital information (preliminary version)   ■
Cynthia Dwork, Jeffrey Lotspiech, Moni Naor
July 1996   **Proceedings of the twenty-eighth annual ACM symposium on Theory of
            computing STOC '96**
Publisher: ACM Press
Full text available: 📄 pdf(1.24 MB)   Additional Information: full citation, references, citings, index terms

4   A wide-area Distribution Network for free software   ■
Arno Bakker, Maarten Van Steen, Andrew S. Tanenbaum
August 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(215.08 KB)   Additional Information: full citation, abstract, references, index terms

> The Globe Distribution Network (GDN) is an application for the efficient, worldwide
> distribution of freely redistributable software packages. Distribution is made efficient by

encapsulating the software into special distributed objects which efficiently replicate themselves near to the downloading clients. The Globe Distribution Network takes a novel, optimistic approach to stop the illegal distribution of copyrighted and illicit material via the network. Instead of having moderators check the p ...

Keywords: Distributed objects, copyright, file sharing, middleware, software distribution, traceable content, wide-area networks

5 Systems: Authorization for digital rights management in the geospatial domain

Andreas Matheus

November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**

Publisher: ACM Press

Full text available: pdf(829.98 KB)   Additional Information: full citation, abstract, references, index terms

Since information is available in digital format, the protection of intellectual property and copyright fraud has become an important issue. This is, because the digital content can be copied without quality loss and with a reasonable effort of time, equipment and money. After copying, it can be distributed using the Internet, again with little effort of time and money. In such an environment, the loss of revenue for the music and film industry -- not only due to sites like Napster -- is becomin ...

Keywords: DRM, access control, geoXACML, geospatial

6 Applications and compliance: Virtual monotonic counters and count-limited objects using a TPM without a trusted OS

Luis F. G. Sarmenta, Marten van Dijk, Charles W. O'Donnell, Jonathan Rhodes, Srinivas Devadas

November 2006 **Proceedings of the first ACM workshop on Scalable trusted computing STC '06**

Publisher: ACM Press

Full text available: pdf(447.59 KB)   Additional Information: full citation, abstract, references, index terms

A trusted monotonic counter is a valuable primitive that enables a wide variety of highly scalable offline and decentralized applications that would otherwise be prone to replay attacks, including offline payment, e-wallets, virtual trusted storage, and digital rights management (DRM). In this paper, we show how one can implement a very large number of *virtual* monotonic counters on an untrusted machine with a Trusted Platform Module (TPM) or similar device, without relying on a trusted OS ...

Keywords: certified execution, e-wallet memory integrity checking, key delegation, stored-value, trusted storage

7 Hardware/software IP protection

Marcello Dalpasso, Alessandro Bogliolo, Luca Benini

June 2000 **Proceedings of the 37th conference on Design automation DAC '00**

Publisher: ACM Press

Full text available: pdf(51.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

Design methodologies based on reuse of intellectual property (IP) components critically depend on techniques to protect IP ownership. IP protection is particularly challenging for hardware/software systems, where an IP core runs embedded software: both the software and the core are valuable IP that must be protected. We propose a new technique for protecting the IP of both processor cores and application software in hardware/software systems. Our approach is based on public-key c ...

8 Systems: Securing sensitive content in a view-only file system

Kevin Borders, Xin Zhao, Atul Prakash

October 2006 **Proceedings of the ACM workshop on Digital rights management DRM '06**

Publisher: ACM Press

Full text available: pdf(357.44 KB)   Additional Information: full citation, abstract, references, index terms

One of the most fundamental problems in computer security is protecting sensitive digital information from unauthorized disclosure. There are a number of challenges, such as

spyware, removable media, and mobile devices, which make this a very hard problem. The problem becomes even more difficult when the adversary is somebody who is authorized to view the data. This is what is commonly referred to as an insider information leak. Insider leaks often occur out of malice, but sometimes are just due ...

Keywords: digital rights management, file systems, information leakage, insider abuse, virtual machines

9   Software Engineering for Secure Systems (SESS) --- Building Trustworthy Applications: Establishing trustworthiness in services of the critical infrastructure through certification and accreditation
Seok Won Lee, Robin A. Gandhi, Gail-Joon Ahn
May 2005   **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Software engineering for secure systems—building trustworthy applications SESS '05**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(398.30 KB)   Additional Information: full citation, abstract, references, citings, index terms

Trustworthiness in services provided by the Critical Infrastructure (CI) is essentially dependent on the quality of underlying software, systems, practice and environment, as which the software information infrastructures are becoming increasingly a major component of business, industry, government and defense. The level of trustworthiness required from services that are operational in such critical software information infrastructures is often established based on standardized infrastructure-wi ...

Keywords: Security and Standardization, critical infrastructure protection, information security requirements engineering, information systems certification and accreditation, ontological engineering, risk assessment

10   How to break fraud-detectable key recovery
Birgit Pfitzmann, Michael Waidner
January 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: pdf(417.38 KB)   Additional Information: full citation, abstract, index terms

Fraud detection for software key recovery schemes means that, without knowing the session key, a third party can verify whether the correct session key could be recovered. This concept and a construction by so-called binding data was introduced by Verheul et al. at Eurocrypt '97 to provide for dishonest users that make simple modifications to messages, e.g., delete the key recovery information, and manipulate the recipient's software such that it decrypts messages even if the key recovery inform ...

11   Legal, ethical, and societal issues in e-commerce: Supporting the legal identities of contracting agents with an agent authorization platform
Dickson K. W. Chiu, Changjie Wang, Ho-fung Leung, Irene Kafeza, Eleanna Kafeza
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**
Publisher: ACM Press
Full text available: pdf(493.00 KB)   Additional Information: full citation, abstract, references, index terms

New technologies have introduced new ways in business transactions where online contracting is complementing and even substituting traditional paper-based transactions. One of the major recent innovations of online contracting is the use of intelligent agents to make contracts among users and businesses around the globe. Despite recent legislations on electronic contracting, there are no legislations governing automatic agent transactions except one preliminary attempt in the USA. We identify th ...

Keywords: PKI, agent certificate, authorization, e-contract, intelligent agents, legal identity

12   Software engineering for security: a roadmap
Premkumar T. Devanbu, Stuart Stubblebine
May 2000   **Proceedings of the Conference on The Future of Software Engineering ICSE '00**

Publisher: ACM Press
Full text available: pdf(1.71 MB)   Additional Information: full citation, references, citings, index terms

Keywords: copy protection, security, software engineering, water-marking

13   Certificate-based authorization policy in a PKI environment
Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume
6 Issue 4
Publisher: ACM Press
Full text available: pdf(233.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

The major emphasis of public key infrastructure has been to provide a cryptographically
secure means of authenticating identities. However, procedures for authorizing the
holders of these identities to perform specific actions still need additional research and
development. While there are a number of proposed standards for authorization structures
and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based
identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates

14   Digital multimedia book: From digital audiobook to secure digital multimedia-book
Lavinia Egidi, Marco Furini
July 2006   **Computers in Entertainment (CIE)**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(364.18 KB)   Additional Information: full citation, abstract, references, index terms

Portable devices and wireless connections are creating a new scenario in which digital
information is entering our lives in a massive way. In this article we consider MP3
audiobook applications and propose an approach to completely restyle the applications to
the current mobile and multimedia scenario. Our mechanism introduces multimedia
contents (images and text) into the audiobook application and synchronizes them with the
MP3 audio stream. Multimedia contents are protected by a security syste ...

Keywords: multimedia applications, multimedia communications, multimedia over
wireless, music distribution

15   Technologies for repository interoperation and access control
Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells
May 1998   **Proceedings of the third ACM conference on Digital libraries DL '98**
Publisher: ACM Press
Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

16   Flexible control of downloaded executable content
Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam
May 1999   **ACM Transactions on Information and System Security (TISSEC)**, Volume 2
Issue 2
Publisher: ACM Press
Full text available: pdf(297.79 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a security architecture that enables system and application a ccess control
requirements to be enforced on applications composed from downloaded executable
content. Downloaded executable content consists of messages downloaded from remote
hosts that contain executables that run, upon receipt, on the downloading principal's
machine. Unless restricted, this content can perform malicious actions, including accessing
its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, autorization machanisms, collaborative
systems, role-based access control

17   An authorization model for a public key management service
Pierangela Samarati, Michael K. Reiter, Sushil Jajodia
November 2001 **ACM Transactions on Information and System Security (TISSEC),** Volume
4 Issue 4
Publisher: ACM Press
Full text available: pdf(337.73 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

> Public key management has received considerable attention from both the research and
> commercial communities as a useful primitive for secure electronic commerce and secure
> communication. While the mechanics of certifying and revoking public keys and escrowing
> and recovering private keys have been widely explored, less attention has been paid to
> access control frameworks for regulating access to stored keys by different parties. In this
> article we propose such a framework for a key management ser ...
>
> **Keywords**: Access control, authorizations specification and enforcement, public key
> infrastructure

18   Verifying security protocols with Brutus
E. M. Clarke, S. Jha, W. Marrero
October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM),**
Volume 9 Issue 4
Publisher: ACM Press
Full text available: pdf(347.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Due to the rapid growth of the "Internet" and the "World Wide Web" security has become
> a very important concern in the design and implementation of software systems. Since
> security has become an important issue, the number of protocols in this domain has
> become very large. These protocols are very diverse in nature. If a software architect
> wants to deploy some of these protocols in a system, they have to be sure that the
> protocol has the right properties as dictated ...
>
> **Keywords**: authentication and secure payment protocols, formal methods, model-
> checking

19   Take control of TCPA
David Safford, Jeff Kravitz, Leendert van Doorn
August 2003 **Linux Journal,** Volume 2003 Issue 112
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(21.73 KB)   Additional Information: full citation, abstract

> The free code behind IBM's new security chip. Menace or protector?

20   Code optimization II: Hiding program slices for software security
Xiangyu Zhang, Rajiv Gupta
March 2003 **Proceedings of the international symposium on Code generation and
optimization: feedback-directed and runtime optimization CGO '03**
Publisher: IEEE Computer Society
Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Given the high cost of producing software, development of technology for prevention of
> software piracy is important for the software industry. In this paper we present a novel
> approach for preventing the creation of unauthorized copies of software. Our approach
> splits software modules into *open* and *hidden* components. The open components are
> installed (executed) on an unsecure machine while the hidden components are installed
> (executed) on a secure machine. We assume that while open ...

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Terms used **software** and **rent**   Found **71,599 of 201,890**

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Best 200 shown   Relevance scale ☐▭▬▬■

1 The optimal software licensing policy under quality uncertainty
Jie Zhang, Abraham Seidmann
September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**
Publisher: ACM Press
Full text available: 📄 pdf(237.20 KB)   Additional Information: full citation, abstract, references

A new service model has emerged which delivers application software and services over the Web on a lease or subscription basis. Our paper studies the optimal licensing policy of a software vendor that uses that business model. We look at software vendors that are both selling (at a posted price) or leasing their products where as lessor they guarantee that the lessee will always have the latest version of the software on their desktop. We address some of the specific issues of implementing this ...

Keywords: network externality, price discrimination, risk, software licensing, upgrade compatibility

2 Harnessing user needs and insights: Customer driven innovation: Quicken® Rental Property Manager
Suzanne Pellican, Matt Homier
November 2005 **Proceedings of the 2005 conference on Designing for User eXperience DUX '05**
Publisher: AIGA: American Institute of Graphic Arts
Full text available: 📄 pdf(510.37 KB)   Additional Information: full citation, abstract

In an effort to find and solve new unmet customer needs, the Quicken® Personal Finance Group (QPFG) embarked on a mission to create innovative new products that would truly make a difference in people's lives. Quicken® Rental Property Manager is the first of these products and the first "version 1.0" outside of Quicken® Personal Finance Software to be released from the Quicken® group in a decade. This paper will focus on how the team blazed a new trail within an org ...

Keywords: advanced prototypes, analysis, architecture, business case, business strategy, concept design, concept evaluation, concept generation, concepts, conceptual model, customer interviews, customer-driven innovation, customer-focus, design planning, desktop software, detailed design, experience strategy, focus groups, generative research, interaction design, interdisciplinary design, launch and learn, macromedia flash, marketing / market research, office, organizational culture, organizational planning, participatory design, performance metrics, personal finance, pilot testing, polish, process, process improvement, product design, product management, prototyping, simple, tax, trade-offs, usability research, user experience, user feedback, user interface design, user research, user studies, user types, user-centered design / human-centered design, version 1.0, visual design

3 Middleware for software leasing over the Internet

H.-A. Jacobsen, O. Günther
November 1999 **Proceedings of the 1st ACM conference on Electronic commerce EC '99**
Publisher: ACM Press
Full text available: pdf(270.10 KB)   Additional Information: full citation, references, citings, index terms

4   Dynamic partial-order reduction for model checking software
Cormac Flanagan, Patrice Godefroid
January 2005 **ACM SIGPLAN Notices , Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '05**, Volume 40 Issue 1
Publisher: ACM Press
Full text available: pdf(278.16 KB)   Additional Information: full citation, abstract, references, index terms

We present a new approach to partial-order reduction for model checking software. This approach is based on initially exploring an arbitrary interleaving of the various concurrent processes/threads, and *dynamically* tracking interactions between these to identify backtracking points where alternative paths in the state space need to be explored. We present examples of multi-threaded programs where our new dynamic partial-order reduction technique significantly reduces the search space, eve ...

Keywords: partial-order reduction, software model checking

5   Experiments in automated analysis of concurrent software systems
G. Avrunin, J. Wileden, L. Dillon
November 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the ACM SIGSOFT '89 third symposium on Software testing, analysis, and verification TAV3**, Volume 14 Issue 8
Publisher: ACM Press
Full text available: pdf(869.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

It is unlikely that any single approach to analysis of concurrent software systems will meet all the needs of software developers throughout the development process. Thus, experimental evaluation of different analysis techniques is needed to determine their relative strengths and practical limitations. Such evaluation requires automated tools implementing the analysis techniques. This paper describes a prototype toolset automating the constrained expression approach to the analys ...

6   Software engineering-as it is
Barry W. Boehm
September 1979 **Proceedings of the 4th international conference on Software engineering ICSE '79**
Publisher: IEEE Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a view of software engineering as it is in 1979. It discusses current software engineering practice with respect to lessons learned in the past few years, and concludes that the lessons are currently not heeded roughly half of the time. The paper discusses some of the factors which may account for this lag, including rapid technological change, education shortfalls, technology transfer inhibitions, resistance to disciplined methods, inappropriate role models, and a restr ...

7   Entity-life modeling and structured analysis in real-time software design—a comparison
Bo Sanden
December 1989 **Communications of the ACM**, Volume 32 Issue 12
Publisher: ACM Press
Full text available: pdf(995.95 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

While structure analysis is sometimes used as a first step towards a real-time software design with concurrent tasks, a more appropriate task structure can often be based directly on concurrent patterns in the problem environment.

Keywords: Ada tasks, dataflow, entity-life modeling, process, rendezvous, structured analysis, structured design, transform

8 Scaling up: a research agenda for software engineering
CORPORATE Computer Science and Technology Board
March 1990 **Communications of the ACM**, Volume 33 Issue 3
Publisher: ACM Press
Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

> The following excerpts have been gleaned from a report by the Computer Science and Technology Board that summarizes the deliberations of a group of software engineers participating in a CSTB workshop that focused on setting research priorities.

9 Software theft and the problem of intellectual property rights
Tom Forester
March 1990 **ACM SIGCAS Computers and Society**, Volume 20 Issue 1
Publisher: ACM Press
Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, citings, index terms

> Computers have brought many benefits to society, but they have also created new social problems such as computer crime, software theft, computer unreliability, invasions of privacy, hacking and the creation of viruses. In turn, these problems pose ethical dilemmas for the youthful profession of computing, which has yet to develop rigid codes of ethics. This is especially the case with software theft or piracy, a widespread phenomenon and a modern version of the age-old problem of intellectual pr ...

10 Contemporary software development environments
William E. Howden
May 1982   **Communications of the ACM**, Volume 25 Issue 5
Publisher: ACM Press
Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings, index terms

> There are a wide variety of software development tools and methods currently available or which could be built using current research and technology. These tools and methods can be organized into four software development environments, ranging in complexity from a simple environment containing few automated tools or expensive methods to a complete one including many automated tools and built around a software engineering database. The environments were designed by considering the life-cycle ...

11 Software engineering I: A series of choices variability in the development process
John M. Hunt, John D. McGregor
March 2006 **Proceedings of the 44th annual Southeast regional conference ACM-SE 44**
Publisher: ACM Press
Full text available: pdf(121.20 KB)   Additional Information: full citation, abstract, references, index terms

> Software variability is "the ability of a software artifact to vary its behavior at some point in its life cycle" [12]. Almost every software artifact requires some type of variability. While variability is endemic to the creation of software it is rarely the direct focus of study. In addition, software systems have shown an increasing amount of variability in recent years. This work provides an analysis of the decisions involved in providing variability at a specific point in a product. A class ...

> **Keywords**: modeling

12 Towards transparent and efficient software distributed shared memory
Daniel J. Scales, Kourosh Gharachorloo
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.34 MB)   Additional Information: full citation, references, citings, index terms

13 Proceedings of the SIGNUM conference on the programming environment for development of numerical software
March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press
Full text available: pdf(5.02 MB)   Additional Information: full citation

14 An entity-life modeling approach to the design of concurrent software

Bo Sanden
March 1989 **Communications of the ACM,** Volume 32 Issue 3
Publisher: ACM Press
Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, references, citings, index terms

Using the idea of Entity-Life Modeling for task decomposition, the design of a prototypical elevator control system is explored and compared to an earlier JSD solution.

15 Software protection and simulation on oblivious RAMs

Oded Goldreich, Rafail Ostrovsky
May 1996 **Journal of the ACM (JACM),** Volume 43 Issue 3
Publisher: ACM Press
Full text available: pdf(3.44 MB)   Additional Information: full citation, abstract, references, citings, index terms

Software protection is one of the most important issues concerning computer practice. There exist many heuristics and ad-hoc methods for protection, but the problem as a whole has not received the theoretical treatment it deserves. In this paper, we provide theoretical treatment of software protection. We reduce the problem of software protection to the problem of efficient simulation on oblivious RAM.A machine is oblivious if thhe sequence in wh ...

Keywords: pseudorandom functions, simulation of random access machines, software protection

16 Software Engineering for Automotive Systems (SEAS): Modeling nonfunctional requirements: a basis for dynamic systems management

Michael Dinkel, Uwe Baumgarten
May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the second international workshop on Software engineering for automotive systems SEAS '05,** Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(156.08 KB)   Additional Information: full citation, abstract, references, index terms

The management of dynamic systems is an upcoming challenge for software engineers in automotive and other embedded systems. The complexity of current automotive computing systems is already difficult to handle for car makers and the expected growth in the area of electronic devices in vehicles will even intensify this situation. This paper presents a model based approach for enabling automatic configuration of distributed component oriented systems. Nonfunctional requirements and capabilities of ...

Keywords: NFR, application model, capability, component, configuration, nonfunctional requirement, platform model, software management, system management

17 A Hardware/Software Concurrent Design for a Real-Time SP@ML MPEG2 Video-Encoder Chip Set

Mitsuo Ikeda, Tsuneo Okubo, Tetsuya Abe, Yoshinori Ito, Yutaka Tashiro, Ryota Kasai
March 1996 **Proceedings of the 1996 European conference on Design and Test EDTC '96**
Publisher: IEEE Computer Society
Full text available:
pdf(781.60 KB)   Additional Information: full citation, citings
Publisher Site

18 Software protection: Software piracy prevention through diversity

Bertrand Anckaert, Bjorn De Sutter, Koen De Bosschere
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management DRM '04**
Publisher: ACM Press

Full text available: pdf((166.30 KB)   Additional Information: full citation, abstract, references, index terms

Software piracy is a major concern for software providers, despite the many defense mechanisms that have been proposed to prevent it. This paper identifies the fundamental weaknesses of existing approaches, resulting from the static nature of defense and the impossibility to prevent the duplication of digital data. A new scheme is presented that enables a more dynamic nature of defense and makes it harder to create an additional, equally useful copy. Furthermore it enables a fine-grained cont ...

Keywords: authentication, copyright protection, diversity, identification, intellectual property protection, software piracy prevention, tailored updates

19 A software manager's views on Ada and software engineering training as examples of
defects in corporate training programs
Ray Kehoe
July 1990   **Proceedings of the seventh Washington Ada symposium on Ada WADAS '90**
Publisher: ACM Press
Full text available: pdf(736.86 KB)   Additional Information: full citation, index terms

20 Formal techniques for OO software development
Pierre America, Derek Coleman, Roger Duke, Doug Lea, Gary Leavens
November 1991 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented
programming systems, languages, and applications OOPSLA '91**, Volume
26 Issue 11
Publisher: ACM Press
Full text available: pdf(669.07 KB)   Additional Information: full citation, index terms

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1   Software management

Cindy Dooling, Jeff White, Cathy Lee

November 2006 **Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06**

Publisher: ACM Press

Full text available: 📄 pdf(66.43 KB)   Additional Information: full citation, abstract, references, index terms

Software management problems? In this session presenters will discuss and demonstrate how Pima Community College (PCC) reigned in control of the software on 5,550 desktop and portable computers located over six campuses, two district offices, and nine center locations.To combat the lack of software standards and perceived legality issues, PCC developed a software plan with input from faculty, staff, and administrators. Prior to implementation of this plan, all users could purchase, download, or ...

Keywords: administrative support, audit, communication, computers, licenses, principles, software management, training

2   Teaching secure communication protocols using a game representation

Leonard G. C. Hamey

January 2003 **Proceedings of the fifth Australasian conference on Computing education - Volume 20 ACE '03**

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(252.19 KB)   Additional Information: full citation, abstract, references, index terms

The Security Protocol Game is a highly visual and interactive game for teaching secure data communication protocols. Students use the game to simulate protocols and explore possible attacks against them. The power of the game lies in the representation of secret and public key cryptography. Specifically, the game provides representations for plain text and encrypted messages, message digests, digital signatures and cryptographic keys. Using these representations, students can construct public ke ...

Keywords: PGP, blind signature, computer network, cryptography, digital signature, key exchange, man-in-the-middle attack, protocols, replay attack, secure communication
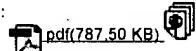
3   Experience reports: process and tools: Effective experience repositories for software engineering

Kurt Schneider, Jan-Peter von Hunnius

May 2003   **Proceedings of the 25th International Conference on Software Engineering ICSE '03**

Publisher: IEEE Computer Society

Full text available:
📄 pdf(787.50 KB) 📱   Additional Information: full citation, abstract, references, index terms
Publisher Site

Software development and acquisition require knowledge and experience in many areas of software engineering. Experience helps people to make decisions under uncertainty, and

to find better compromises. Experience-based process improvement considers experience as a prerequisite for competent behavior in software development. There is usually a repository to store experiences and to make it available for reuse. At DaimlerChrysler, we have been building those repositories for more than five years. ...

4   Global software piracy: you can't get blood out of a turnip
Ram D. Gopal, G. Lawrence Sanders
September 2000 **Communications of the ACM**, Volume 43 Issue 9
Publisher: ACM Press
Full text available: pdf(121.69 KB)   Additional Information: full citation, references, citings, index terms, review
html(33.38 KB)

5   Tree structures construction using key densities
S. B. Yao
January 1975 **Proceedings of the 1975 annual conference ACM 75**
Publisher: ACM Press
Full text available: pdf(335.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

Storage structure alternatives exist for structuring symbol trees. Sequential structure is used in Trie and linked list structure is used in Doubly Chained Tree. A model of hybrid tree structures is presented which employs storage structures at levels where they are most efficient. The model parameters are determined by the densities of key components. A related hit ratio problem is solved so that these densities can be estimated. Analyses are given to determine appropriate tree structures ...

6   Public protection of software
Amir Herzberg, Shlomit S. Pinter
October 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 4
Publisher: ACM Press
Full text available: pdf(1.78 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

One of the overwhelming problems that software producers must contend with is the unauthorized use and distribution of their products. Copyright laws concerning software are rarely enforced, thereby causing major losses to the software companies. Technical means of protecting software from illegal duplication are required, but the available means are imperfect. We present protocols that enable software protection, without causing substantial overhead in distribution and maintenance. The pro ...

7   Surfing the Net for software engineering notes
Mark Doernhoefer
July 2000   **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(889.62 KB)   Additional Information: full citation, index terms

8   Trust (and mistrust) in secure applications
John Viega, Tadayoshi Kohno, Bruce Potter
February 2001 **Communications of the ACM**, Volume 44 Issue 2
Publisher: ACM Press
Full text available: pdf(91.25 KB)   Additional Information: full citation, appendices and supplements, references, cited by,
html(33.48 KB)   index terms, review

9   Shrink Wrap—Part 2: The doubtful validity of most PC software agreements
John Weld
August 1986 **ACM SIGCAS Computers and Society**, Volume 16 Issue 2-3
Publisher: ACM Press
Full text available: pdf(569.57 KB)   Additional Information: full citation

10   THE TRANSFER OF UNIVERSITY SOFTWARE FOR INDUSTRY USE

Rossane Wyleczuk, Lynn Meyer, Gigi Babcock
June 1983 **Proceedings of the 20th conference on Design automation DAC '83**
Publisher: IEEE Press
Full text available: pdf(595.38 KB)   Additional Information: full citation, abstract, references, index terms

Computer-aided engineering software is generated in abundance in educational institutions. As a major source of design automation software, universities have a lot to offer: a progressive research environment; a seemingly inexhaustible supply of software engineers in the form of undergraduates, graduate engineers, and professors; and a no-risk, multi-disciplinary design lab for experimentation. For these reasons, university software is being widely sought for use in production/commercial en ...

11 Software publishing and the software developer
Philip Evans
May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future APL '85,** Volume 15 Issue 4
Publisher: ACM Press
Full text available: pdf(792.98 KB)   Additional Information: full citation, references, index terms

12 Secure personal computing in an insecure network
Dorothy E. Denning
August 1979 **Communications of the ACM,** Volume 22 Issue 8
Publisher: ACM Press
Full text available: pdf(654.64 KB)   Additional Information: full citation, abstract, references, citings

A method for implementing secure personal computing in a network with one or more central facilities is proposed. The method employs a public-key encryption device and hardware keys. Each user is responsible for his own security and need not rely on the security of the central facility or the communication links. A user can safely store confidential files in the central facility or transmit confidential data to other users on the network.

Keywords: networks, personal computing, privacy, public-key encryption, security

13 A KeyServer for faculty, not just labs
Christopher Jones
September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services SIGUCCS '03**
Publisher: ACM Press
Full text available: pdf(137.97 KB)   Additional Information: full citation, abstract, references, index terms

Academic lab managers have been using Sassafras's KeyServer software for more than a decade to manage software licenses. KeyServer is server-based license management software that allows lab managers to install dozens of licensed software packages on most or all of their lab computers, even if they own just a few licenses for each software package.This paper describes the use of KeyServer in a non-lab environment. The School of Architecture and Allied Arts at the University of Oregon installed a ...

Keywords: KeyServer, faculty, sassafras, software licensing

14 OS X: a ten-step program
Crystal R. Miller, Henry R. Bent
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**
Publisher: ACM Press
Full text available: pdf(174.95 KB)   Additional Information: full citation, abstract, references, index terms

Updating Oberlin College's eight Macintosh computer labs from the conventional OS 9 of our youth to Apple's newest, sexy, Unix-based OS X has been the embodiment of our institution's historic motto, "Learning and Labor". New challenges, incompatibilities, and excitement have greeted our IT staff most every step of the way. Gone are the days of brightly colored computers, RevRdist, Pcounter, and happy Macs. Today our labs are filled with sleek flat-panel iMacs and Pharos Release Stations while ...

Keywords: Macintosh, OS X, printing, public laboratories, radmind

15 Living on the bleeding edge: creating and managing highly specialized student labs

Deborah Cherry, Paul Phillabaum, Pomona Valero
October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future SIGUCCS '00**
Publisher: ACM Press
Full text available: pdf(211.74 KB)   Additional Information: full citation, references, citings, index terms

Keywords: audio, digital media, high-end, labs, multimedia, specialty, video

16 The design and implementation of hierarchical software systems with reusable components

Don Batory, Sean O'Malley
October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 4
Publisher: ACM Press
Full text available: pdf(3.15 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

17 Managing open access labs: "MacGyver principle"

Mark A. Adams
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**
Publisher: ACM Press
Full text available: pdf(194.02 KB)   Additional Information: full citation, abstract, references, index terms

For a variety of reasons, in recent years doing more with less has become standard operating practice within IT departments of higher education. Colleges and Universities, following the industry trend to decentralize aspects of enterprise management to smaller functional areas within the organization, are moving less centralized enterprise management functions to individual departments. The use of Microsoft's Active Directory structure with Organizational Units (OU) and the other object conce ...

Keywords: "The Six Thinking Hats", "universal troubleshooting process", MacGyver principle, MacGyver toolkit, OS compatibility, automation and enterprise management, deep freeze, ghost console, group policy object (GPO), innovation, interactive development environment (IDE), methodology, microsoft management console (MMC), migration, open access computing, open access labs, organizational unit (OU), roaming user profiles (RUPS), system lockdown procedures, troubleshooting

18 Book review: Review of "A Guide for Selecting Computers and Software for Small Businesses, by Enockson, Paul G.", Reston Publishing Company, 1983

John F. Schrage
July 1983 **ACM SIGMIS Database**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(188.38 KB)   Additional Information: full citation, abstract

This little book (109 pages) is excellent for the company considering the small computer and its software. The material is requirements-based and walks through an example of acquisition. The Appendices are the key to the book and provide checklists for hardware/software purchases. The content is based on determining requirements for the organization then going through a step-by-step process in solving those needs.

19   Atomicity in electronic commerce

J. D. Tygar

May 1996   **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing PODC '96**

Publisher: ACM Press

Full text available: 🅰 pdf(1.74 MB)   Additional Information: full citation, references, citings, index terms

20   Implementing an untrusted operating system on trusted hardware

David Lie, Chandramohan A. Thekkath, Mark Horowitz

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: 🅰 pdf(280.87 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recently, there has been considerable interest in providing "trusted computing platforms" using hardware~----~TCPA and Palladium being the most publicly visible examples. In this paper we discuss our experience with building such a platform using a traditional time-sharing operating system executing on XOM~---~a processor architecture that provides copy protection and tamper-resistance functions. In XOM, only the processor is trusted; main memory and the operating system are not trusted.Our opera ...

Keywords: XOM, XOMOS, untrusted operating systems

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